



## SEQUENCE LISTING

#### (1) GENERAL INFORMATION:

- (i) APPLICANT: Sims, Peter J.
- (ii) TITLE OF INVENTION: Compositions and Methods to Inhibit the C5b-9 Complex of Complement
- (iii) NUMBER OF SEQUENCES: 18
  - (iv) CORRESPONDENCE ADDRESS:
    - (A) ADDRESSEE: Patrea L. Pabst
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    - (C) CITY: Atlanta
    - (D) STATE: GA
    - (E) COUNTRY: USA
    - (F) ZIP: 30309-3450
  - (v) COMPUTER READABLE FORM:
    - (A) MEDIUM TYPE: Floppy disk
      - (B) COMPUTER: IBM PC compatible
      - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
      - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US
  - (B) FILING DATE: 03-FEB-1998
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Pabst, Patrea L.
  - (B) REGISTRATION NUMBER: 31,284
  - (C) REFERENCE/DOCKET NUMBER: OMRF 170
  - (ix) TELECOMMUNICATION INFORMATION:
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    - (B) TELEFAX: 404-873-8795

#### (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 127 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Human
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
- Gly Ile Gln Gly Gly Ser Val Leu Phe Gly Leu Leu Val Leu Ala
- Val Phe Cys His Ser Gly His Ser Leu Gln Cys Tyr Asn Cys Pro Asn
- Pro Thr Ala Asp Cys Lys Thr Ala Val Asn Cys Ser Ser Asp Phe Asp
- Ala Cys Leu Ile Thr Lys Ala Gly Leu Gln Val Tyr Asn Lys Cys Trp
- Lys Phe Glu His Cys Asn Phe Asn Asp Val Thr Thr Arg Leu Arg Glu
- Asn Glu Leu Thr Tyr Tyr Cys Cys Lys Lys Asp Leu Cys Asn Phe Asn 90

49





Glu Gln Leu Glu Asn Gly Gly Thr Ser Leu Ser Glu Lys Thr Val Leu 100 105 110

Leu Leu Val Thr Pro Phe Leu Ala Ala Ala Trp Ser Leu His Pro 115 120 125

# (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 124 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Rabbit
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Thr Ser Arg Gly Val His Leu Leu Leu Arg Leu Leu Phe Leu Leu 1 5 10 15

Ala Val Phe Tyr Ser Ser Asp Ser Ser Leu Met Cys Tyr His Cys Leu 20 25 30

Leu Pro Ser Pro Asn Cys Ser Thr Val Thr Asn Cys Thr Pro Asn His 35 40 45

Asp Ala Cys Leu Thr Ala Val Ser Gly Pro Arg Val Tyr Arg Gln Cys
50 60

Trp Arg Tyr Glu Asp Cys Asn Phe Glu Phe Ile Ser Asn Arg Leu Glu 65 70 75 80

Glu Asn Ser Leu Lys Tyr Asn Cys Cys Arg Lys Asp Leu Cys Asn Gly 85 90 95

Pro Glu Asp Asp Gly Thr Ala Leu Thr Gly Arg Thr Val Leu Leu Val 100 105 110

Ala Pro Leu Leu Ala Ala Ala Arg Asn Leu Cys Leu 115 120

## (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 77 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Human
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Ala Asp Cys Lys Thr Ala 1 5 10 15

Val Asn Cys Ser Ser Asp Phe Asp Ala Cys Leu Ile Thr Lys Ala Gly
20 25 30





Leu Gln Val Tyr Asn Lys Cys Trp Lys Phe Glu His Cys Asn Phe Asn 35 40 45

Asp Val Thr Thr Arg Leu Arg Glu Asn Glu Leu Thr Tyr Tyr Cys Cys 50 55 60

Lys Lys Asp Leu Cys Asn Phe Asn Glu Gln Leu Glu Asn 65 70 75

# (2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 75 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Baboon
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Thr Asn Cys Lys Thr Ala 1 5 10 15

Ile Asn Cys Ser Ser Gly Phe Asp Thr Cys Leu Ile Ala Arg Ala Gly
20 25 30

Leu Gln Val Tyr Asn Gln Cys Trp Lys Phe Ala Asn Cys Asn Phe Asn 35 40 45

Asp Ile Ser Thr Leu Leu Lys Glu Asn Glu Leu Gln Tyr Phe Cys Cys 50 60

Lys Glu Asp Leu Cys Asn Glu Gln Leu Glu Asn 65 70 75

#### (2) INFORMATION FOR SEO ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 77 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: African green monkey
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Leu Gln Cys Tyr Asn Cys Pro Asn Pro Thr Thr Asp Cys Lys Thr Ala 1 5 10 15

Ile Asn Cys Ser Ser Gly Phe Asp Thr Cys Leu Ile Ala Arg Ala Gly 20 25 30

Leu Gln Val Tyr Asn Gln Cys Trp Lys Phe Ala Asn Cys Asn Phe Asn 35 40 45

Asp Ile Ser Thr Leu Leu Lys Glu Ser Glu Leu Gln Tyr Phe Cys Cys 50 55 60





Lys Lys Asp Leu Cys Asn Phe Asn Glu Gln Leu Glu Asn 65 70 75

# (2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 77 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Owl monkey
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Leu Gln Cys Tyr Ser Cys Pro Tyr Pro Thr Thr Gln Cys Thr Met Thr

10 15

Thr Asn Cys Thr Ser Asn Leu Asp Ser Cys Leu Ile Ala Lys Ala Gly
20 25 30

Ser Arg Val Tyr Tyr Arg Cys Trp Lys Phe Glu Asp Cys Thr Phe Ser 35 40 45

Arg Val Ser Asn Gln Leu Ser Glu Asn Glu Leu Lys Tyr Tyr Cys Cys 50 60

Lys Lys Asn Leu Cys Asn Phe Asn Glu Ala Leu Glu Asn 65 70 75

### (2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 77 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Marmoset
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Leu Gln Cys Tyr Ser Cys Pro Tyr Ser Thr Ala Arg Cys Thr Thr Thr 1 5 10 15

Thr Asn Cys Thr Ser Asn Leu Asp Ser Cys Leu Ile Ala Lys Ala Gly
20 25 30

Leu Arg Val Tyr Tyr Arg Cys Trp Lys Phe Glu Asp Cys Thr Phe Arg
35 40 45

Gln Leu Ser Asn Gln Leu Ser Glu Asn Glu Leu Lys Tyr His Cys Cys 50 55 60

Arg Glu Asn Leu Cys Asn Phe Asn Gly Ile Leu Glu Asn 65 70 75

# (2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:





- (A) LENGTH: 75 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Leu Gln Cys Tyr Asn Cys Ser His Ser Thr Met Gln Cys Lys Thr Ser

Thr Ser Cys Thr Ser Asn Leu Asp Ser Cys Leu Ile Ala Lys Ala Gly 25

Ser Gly Val Tyr Asn Lys Cys Trp Lys Phe Asp Asp Cys Ser Phe Lys

Arg Ile Ser Asn Gln Leu Ser Glu Thr Gln Leu Lys Tyr His Cys Cys

Lys Lys Asn Leu Cys Asn Val Asn Lys Gly Ile 70

- (2) INFORMATION FOR SEQ ID NO:9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 36 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single(D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (iii) HYPOTHETICAL: NO
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Pig
  - (xi) SEQUENCE DESCRIPTION: SEO ID NO:9:

Leu Gln Cys Tyr Asn Cys Ile Asn Pro Ala Gly Ser Cys Thr Xaa Xaa

Met Asn Cys Ser Tyr Asn Gln Asp Ala Cys Ile Phe Val Xaa Ala Val

Pro Pro Lys Thr

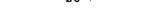
- (2) INFORMATION FOR SEQ ID NO:10:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 27 amino acids (B) TYPE: amino acid

    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (iii) HYPOTHETICAL: NO
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Sheep
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Leu Gln Cys Tyr Ser Cys Ile Asn Gln Val Asp Cys Thr Ser Val Ile

Asn Cys Thr Xaa Asn Gln Asp Ala Cys Leu Tyr

20 . 25



(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 77 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- <del>(iii) HYPOTHETICAL: NO</del>
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Rabbit
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser Leu Met Cys Tyr His Cys Leu Leu Pro Ser Pro Asn Cys Ser Thr
1 5 10 15

Val Thr Asn Cys Thr Pro Asn His Asp Ala Cys Leu Thr Ala Val Ser 20 25 30

Gly Pro Arg Val Tyr Arg Gln Cys Trp Arg Tyr Glu Asp Cys Asn Phe 35 40 45

Glu Phe Ile Ser Asn Arg Leu Glu Glu Asn Ser Leu Lys Tyr Asn Cys 50 55 60

Cys Arg Lys Asp Leu Cys Asn Gly Pro Glu Asp Asp Gly 65 70 75

## (2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 79 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Rat
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Leu Arg Cys Tyr Asn Cys Leu Asp Pro Val Ser Ser Cys Lys Thr Asn 1 5 10 15

Ser Thr Cys Ser Pro Asn Leu Asp Ala Cys Leu Val Ala Val Ser Gly 20 25 30

Lys Gln Val Tyr Gln Gln Cys Trp Arg Phe Ser Asp Cys Asn Ala Lys 35 40 45

Phe Ile Leu Ser Arg Leu Glu Ile Ala Asn Val Gln Tyr Arg Cys. Cys 50 60

Gln Ala Asp Leu Cys Asn Lys Ser Phe Glu Asp Lys Pro Asn Asn 65 70 75

## (2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74 amino acids





- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
- (A) ORGANISM: Mouse
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Leu Thr Cys Tyr His Cys Phe Gln Pro Val Val Ser Ser Cys Asn Met

Asn Ser Thr Cys Ser Pro Asp Gln Asp Ser Cys Leu Tyr Ala Val Ala 20 25 30

Gly Met Gln Val Tyr Gln Arg Cys Trp Lys Gln Ser Asp Cys His Gly
35 40 45

Glu Ile Ile Met Asp Gln Leu Glu Glu Thr Lys Leu Lys Phe Arg Cys
50 60

Cys Gln Phe Asn Leu Cys Asn Lys Ser Asp 65 70

- (2) INFORMATION FOR SEQ ID NO:14:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 82 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (iii) HYPOTHETICAL: NO
  - (vi) ORIGINAL SOURCE:
    - (A) ORGANISM: Human
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Leu Tyr Glu Leu Ile Tyr Val Leu Asp Lys Ala Ser Met Lys Arg Lys

1 10 15

Gly Val Glu Leu Lys Asp Ile Lys Arg Cys Leu Gly Tyr His Leu Asp
20 25 30

Val Ser Leu Ala Phe Ser Glu Ile Ser Val Gly Ala Glu Phe Asn Lys 35 40 45

Asp Asp Cys Val Lys Arg Gly Glu Gly Arg Ala Val Asn Ile Thr Ser 50 60

Glu Asn Leu Ile Asp Asp Val Val Ser Leu Ile Arg Gly Gly Thr Arg 65 70 75 80

Lys Tyr

- (2) INFORMATION FOR SEQ ID NO:15:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 86 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide





- (iii) HYPOTHETICAL: NO
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM: Rabbit
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Arg Tyr Glu Leu Ile Tyr Val Leu Asp Lys Ala Ser Met Lys Glu Lys

Gly Ile Glu Leu Asn Asp Ile Lys Lys Cys Leu Gly Phe Asp Leu Asp

Leu Ser Leu Asn Ile Pro Gly Lys Ser Ala Gly Leu Ser Leu Thr Gly

Gln Ala Asn Lys Asn Asn Cys Leu Lys Ser Gly His Gly Asn Ala Val

Asn Ile Thr Arg Ala Asn Leu Ile Asp Asp Val Ile Ser Leu Ile Arg

Gly Gly Thr Gln Lys Phe

- (2) INFORMATION FOR SEQ ID NO:16:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 40 amino acids(B) TYPE: amino acid

    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (iii) HYPOTHETICAL: NO
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Ser Leu Met Cys Tyr His Cys Leu Leu Pro Ser Pro Asn Cys Ser Thr

Val Thr Asn Cys Thr Pro Asn His Asp Ala Cys Leu Thr Ala Val Ser

Gly Pro Arg Val Tyr Arg Gln Cys

- (2) INFORMATION FOR SEQ ID NO:17:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: peptide
  - (iii) HYPOTHETICAL: NO
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn

- (2) INFORMATION FOR SEQ ID NO:18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 27 amino acids
    - (B) TYPE: amino acid





(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Lys Cys Leu Gly Tyr His Leu Asp Val Ser Leu Ala Phe Ser Glu Ile 1 5 10 15

Ser Val Gly Ala Glu Phe Asn Lys Asp Asp Cys 20 25

